

Amendments to the Claims

Claims 1-10 (cancelled):

filed 1.12.11

A6

1. A rotation support of heat dissipation fan comprising:

- a ceramic hollow tube bearing, said bearing pass through and fix on fan rotor and rotate with the fan rotor;
- a ceramic hollow tube support bearing, said bearing fix on fan base and work as structure support which do not rotate;
- a ceramic solid or hollow axle tube, said axle tube is cylindrical shape or with an end flange portion forming a T shape tube, said axle tube pass through the inside of said bearing and said support bearing and rotate asynchronously and freely with fan rotor, said axle tube work as structure support to provide multi-point contact rotation support mechanism; and,
- a ceramic holding ring with opening gap, said ring limit the axial movement of said axle tube.

2. The rotation support of heat-dissipation fan as defined in claim 1, wherein said bearing and said support bearing is ceramic hollow tube, the exterior of said bearing and support bearing is formed or grinded to concave surface with smaller outer diameter or non-circular shape or concave groove shape to provide a solid connection with fan rotor body.

3. The rotation support of heat-dissipation fan as defined in claim 1, wherein said bearing and said support bearing is ceramic hollow tube, the interior of said bearing and support bearing is formed or grinded with concave grooves to reduce contact thereof friction between said bearing, said support bearing and said axle tube.

4. The rotation support of heat-dissipation fan as defined in claim 1, wherein said axle tube pass through the inside of said bearing and said support bearing and

rotate asynchronously with fan rotor; said axle tube is ceramic solid or hollow tube with cylindrical shape or with an end flange portion forming a T shape, the exterior of said axle tube is formed or grinded with concave grooves or with non-circular shape to reduce contact thereof friction between said bearing, said support bearing and said axle tube.

✓ 5. The rotation support of heat-dissipation fan as defined in claim 1, wherein said ring is ceramic ring with opening gap, the inner diameter of said ring is equal or smaller than outer diameter of said axle tube and installed at one end or both end of said axle tube.

✓ 6. A rotation support of heat dissipation fan comprising:

a ceramic hollow tube bearing, said bearing pass through and fix on fan rotor and rotate with the fan rotor;

a ceramic solid or hollow axle tube, said axle tube is cylindrical shape or with an end flange portion forming a T shape tube, said axle tube is passing through the inside of said bearing and fixed on fan base working as structure support to provide multi-point contact rotation support mechanism; and,

a ceramic holding ring with opening gap , said ring limit the axial movement of said axle tube.

✓ 7. The rotation support of heat-dissipation fan as defined in claim 6, wherein said axle tube is fixed on fan base and do not rotate; said axle tube is ceramic solid or hollow tube with cylindrical shape or with an end flange portion forming a T shape, the exterior of said axle tube is formed or grinded with concave grooves or with non-circular shape to reduce contact thereof friction between said bearing, said support bearing and said axle tube.

✓ 8. A rotation support of heat dissipation fan comprising:

a pair of ceramic hollow tube bearings, said bearings pass through and fix on fan

rotor and fan base respectively and rotate with the fan rotor;
a ceramic hollow axle tube, said axle tube pass through the inside of both said bearing and connect the center of front and rear fan body support frame; said axle tube do not rotate and work as structure support to provide multi-point contact rotation support mechanism;
a pair of ceramic holding ring with opening gap , said ring limit the axial movement of said axle tube. and,
an opening slot on said axle tube, said opening slot work as internal electrical connection point between fan coil/electronic control circuit board and external power source.

19. The rotation support of heat-dissipation fan as defined in claim 8, wherein said axle tube is fixed and connecting the center of front and rear fan body support frame; fan coil/electronic control circuit board is fixed on said axle tube and external power source is connected thru said opening slot on said axle tube; said axle tube is ceramic hollow tube and the exterior of said axle tube is formed or grinded with concave grooves or with non-circular shape to reduce contact thereof friction between said bearing, said support bearing and said axle tube

20. The rotation support of heat-dissipation fan as defined in claim 8, wherein fan rotor forms a closed area where said rotation support structure of heat-dissipation fan and fan coil/electronic control circuit board are kept inside, preventing dust and particles accumulation.